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Docket No.: STL9-2000-0011US2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor:	William E. Malloy	Assignee:	International Business Machines Corporation
Application No.:	09/747,515	Customer No.:	24852
Confirmation No.:	3164	Group Art Unit:	2171
Filing Date:	12/21/2000	Examiner:	Unknown
Title	Using an index to access a subject multi-dimensional database		

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DEC 07 2004CERTIFICATE UNDER 37 C.F.R. §3.73(b)

INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation organized and existing under the laws of the State of New York, having a place of business at New Orchard Road, Armonk, New York 10504, certifies that it is the assignee of the entire right, title, and interest in the patent application identified above by virtue of:

An assignment from the inventors, William E. Malloy, Gary Robinson, Andreas Arning, to International Business Machines Corporation, of the patent application identified above. The assignment was recorded in the U.S. Patent and Trademark office on December 21, 2000, at Reel/Frame 011427/0518 (copy attached).

INTERNATIONAL BUSINESS MACHINES CORPORATION owns 100% interest in the above-identified patent application.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, as the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Dated: Dec. 6, 2004By: Christine H. Smith

Christine H. Smith, Reg.No. 43133
Senior Attorney, Intellectual Property Law
International Business Machines Corporation
555 Bailey Ave., J46/G4
San Jose, CA 95141-1003



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Washington, D.C. 20231

MARCH 28, 2001

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PRETTY & SCHROEDER, P.C.
ANNE WANG, ESQ.
444 S. FLOWER STREET, 19TH FLOOR
LOS ANGELES, CA 90071



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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/21/2000

REEL/FRAME: 011427/0518
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

ARNING, ANDREAS

DOC DATE: 11/24/2000

ASSIGNOR:

MALLOY, WILLIAM E.

DOC DATE: 11/17/2000

ASSIGNOR:

ROBINSON, GARY

DOC DATE: 11/21/2000

ASSIGNEE:

INTERNATIONAL BUSINESS MACHINES
CORPORATION
NEW ORCHARD ROAD
ARMONK, NEW YORK 10504

SERIAL NUMBER: 09747515
PATENT NUMBER:FILING DATE: 12/21/2000
ISSUE DATE:

2004-12-07 13:33

ussvllgr-STL

1408-463-4393 >> USPTO

P 5/9

011427/0518 PAGE 2

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To the Honorable Commissioner of Patents and Trademarks: Please return the attached original documents or copy thereof.

1. Name of conveying party(ies):

Andreas Arning
William F. Malloy
Gary Robinson

2. Name and address of receiving party(ies):

Name: International Business Machines CorporationAddress: New Orchard Road

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherCity: ArmonkState/Prov.: New YorkCountry: United StatesZIP: 10504Execution Date: 11/24/00; 11/17/00; and 11/21/00

Additional name(s) & address(es)

☐ Yes ☒ No

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: 11/17/00

Patent Application No.

Filing date

B. Patent No.(s)

To Be Assigned

09747515

Additional numbers

☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Anne Wang, Esq.Registration No. 36,045Address: Pretty & Schroeder, P.C.444 S. Flower St., 19th FloorCity: Los AngelesState/Prov.: CaliforniaCountry: United StatesZIP: 90071

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☒ Authorized to be charged to deposit account

8. Deposit account number:

09-0460

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Jeffrey F. Craft

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments

3

ASSIGNMENT

Docket No. STL000011US2

INVENTOR
AND CITY(1) Andreas Arning
County of Santa Clara(2) William E. Malloy
County of Santa Clara(3) Gary Robinson
County of Santa Clara

Whereas, I

Rottenburg
of (San Jose)
and State of (California),
Germany,
of Santa Clara,
and State of California,of San Jose,
and State of California,

have invented certain improvements in

TITLE

USING AN INDEX TO ACCESS A SUBJECT MULTI-DIMENSIONAL DATABASEDATE THAT
INVENTOR
SIGNED THE
DECLARATION

and executed, respectively, a United States patent application therefor on

(1) November 24, 2000, (2) _____, 2000, and
(3) _____, 2000.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and I request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and I hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed

CITY
DATE(1) at Rottenburg, Germany
on November 24, 2000

Andreas Arning

SIGNATURE
INVENTORCITY
DATE(2) at _____
on _____, 2000

William E. Malloy

SIGNATURE
INVENTORCITY
DATE(3) at _____
on _____, 2000

Gary Robinson

SIGNATURE
INVENTOR

ASSIGNMENT

Docket No. STL000011US2

INVENTOR
AND CITY

Whereas, I

(1) Andreas Aming
County of Santa Claraof San Jose,
and State of California,(2) William E. Malloy
County of Santa Claraof Santa Clara,
and State of California,(3) Gary Robinson
County of Santa Claraof San Jose,
and State of California,

have invented certain improvements in

TITLE

USING AN INDEX TO ACCESS A SUBJECT MULTI-DIMENSIONAL DATABASEDATE THAT
INVENTOR
SIGNED THE
DECLARATION

and executed, respectively, a United States patent application therefor on

(1) _____, 2000, (2) 17 Nov, 2000, and
(3) 21 Nov, 2000.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and I request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and I hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed

CITY
DATE(1) at _____
on _____, 2000

Andreas Aming

SIGNATURE
INVENTORCITY
DATE(2) at San Jose
on 17 Nov, 2000

William E. Malloy

SIGNATURE
INVENTORCITY
DATE(3) at San Jose
on 21 Nov, 2000

Gary Robinson

SIGNATURE
INVENTOR